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FILE 'HOME' ENTERED AT 15:37:22 ON 19 APR 1999

=> file medline, caplus

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FILE 'MEDLINE' ENTERED AT 15:37:31 ON 19 APR 1999

FILE 'CAPLUS' ENTERED AT 15:37:31 ON 19 APR 1999
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SOCIETY (ACS)

=> s (fusion# or chimer? or hybrid? or conjuga?)

L1 713179 (FUSION# OR CHIMER? OR HYBRID? OR CONJUGA?)

=> s l1 (5a) (heat shock protein? or heat shock polypeptide?
or heat shock peptide?)

1 FILES SEARCHED...

L2 117 L1 (5A) (HEAT SHOCK PROTEIN? OR
HEAT SHOCK POLYPEPTIDE? OR HEAT
SHOCK PEPTIDE?)

=> s l2 (5a) epitop?

L3 2 L2 (5A) EPITOP?

=> d 1-2

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 1999 ACS
AN 1996:194446 CAPLUS

DN 124:257723

TI In vivo carrier effect of heat shock proteins in conjugated
vaccine
constructs

AU Giudice, Giuseppe Del

CS Institute Biochemistry, University Lausanne, Switz.

SO Stress Proteins Med. (1996), 533-45. Editor(s): Van
Eden, Willem; Young,

Douglas B. Publisher: Dekker, New York, N. Y.
CODEN: 62NSA5

DT Conference; General Review

LA English

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 1999 ACS
AN 1991:677432 CAPLUS

DN 115:277432

TI Mycobacterial heat-shock proteins as carrier molecules

AU Lussow, Alexander R.; Barrios, Christy; Van Embden,
Jan; Van der Zee,
Ruur; Verdini, Antonio S.; Pessi, Antonello; Louis,
Jacques A.; Lambert,
Paul Henri, Del Giudice, Giuseppe
CS Dep. Pathol., Univ. Geneva, Geneva, CH-1211, Switz.
SO Eur. J. Immunol. (1991), 21(10), 2297-302
CODEN: EJIMAF; ISSN: 0014-2980

DT Journal
LA English

UR 180-68

=> d ab

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 1999 ACS
AB A review with 50 refs. discussing PPD as a carrier mol.
in animals
sensitized with BCG, ***heat*** ***shock***
proteins as
carrier mols. for ***conjugated*** B-cell
epitopes in order
to avoid need for adjuvants, and prokaryotic heat shock
proteins in
vaccine constructs.

=> d his

(FILE 'HOME' ENTERED AT 15:37:22 ON 19 APR 1999)

FILE 'MEDLINE, CAPLUS' ENTERED AT 15:37:31
ON 19 APR 1999

L1 713179 S (FUSION# OR CHIMER? OR HYBRID?
OR CONJUGA?)

L2 117 S L1 (5A) (HEAT SHOCK PROTEIN? OR
HEAT SHOCK POLYPEPTIDE? OR HE

L3 2 S L2 (5A) EPITOP?

=> s l2 and ubiquitin

L4 9 L2 AND UBIQUITIN

=> s l4 and epitopes

L5 0 L4 AND EPITOPEs

=> dup rem l4

PROCESSING COMPLETED FOR L4

L6 7 DUP REM L4 (2 DUPLICATES REMOVED)

=> d 1-7

L6 ANSWER 1 OF 7 CAPLUS COPYRIGHT 1999 ACS
AN 1997:493522 CAPLUS

DN 127:188310

TI Effects of near-lethal heat stress on bud break, heat-shock
proteins and
ubiquitin in dormant poplar (*Populus nigra*
Charkwiensis) times.

P. nigra incassata)
AU Wisniewski, Michael; Sauter, Jorg; Fuchigami, Les;
Stepien, Valerie
CS USDA-ARS, Kearneysville, WV, 25430, USA
SO Tree Physiol. (1997), 17(7), 453-460
CODEN: TRPHEM; ISSN: 0829-318X
PB Heron Publishing
DT Journal
LA English

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 1999 ACS
AN 1995:931025 CAPLUS
DN 123:335121
TI Physiological and molecular responses of Prosopis
chilensis under field
and simulation conditions.
AU Ortiz, Claudia A.; Bravo, Leon A.; Pinto, Manuel;
Cardemil, Liliana
CS Fac. Cien. Agrar. Forest., Univ. Chile, Santiago, Chile
SO Phytochemistry (1995), 40(5), 1375-82
CODEN: PYTCAS; ISSN: 0031-9422
DT Journal
LA English

L6 ANSWER 3 OF 7 MEDLINE
AN 94101634 MEDLINE
DN 94101634
TI Differential expression of heat shock proteins in
pancreatic carcinoma.
AU Gress T M; Muller-Pillasch F; Weber C; Lerch M M;
Friess H; Buchler M;
Beger H G; Adler G
CS Department of Internal Medicine I, University of Ulm,
Germany..
SO CANCER RESEARCH, (1994 Jan 15) 54 (2) 547-51.
Journal code: CNF. ISSN: 0008-5472.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
EM 199404

L6 ANSWER 4 OF 7 MEDLINE
AN 92198332 MEDLINE
DN 92198332
TI ***Ubiquitin*** and the lysosome system: molecular
immunopathology
reveals the connection.
AU Mayer R J; Lowe J; Landon M; McDermott H;
Tuckwell J; Doherty F; Laszlo L
CS Department of Biochemistry, University of Nottingham
Medical School,
Queens Medical Centre, U.K..
SO BIOMEDICA BIOCHIMICA ACTA, (1991) 50 (4-6)
333-41. Ref: 34
Journal code: 9YX. ISSN: 0232-766X.
CY GERMANY: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English

FS Priority Journals
EM 199206
L6 ANSWER 5 OF 7 MEDLINE
DUPLICATE 1
AN 91366495 MEDLINE
DN 91366495
TI The latent membrane protein-1 in Epstein-Barr
virus-transformed
lymphoblastoid cells is found with ***ubiquitin***
-protein
conjugates and ***heat*** - ***shock***
protein 70
in lysosomes oriented around the microtubule organizing
centre.
AU Laszlo L; Tuckwell J; Self T; Lowe J; Landon M; Smith
S; Hawthorne J N;
Mayer R J
CS Department of General Zoology, Eotvos University,
Budapest, Hungary..
SO JOURNAL OF PATHOLOGY, (1991 Jul) 164 (3)
203-14.
Journal code: JLB. ISSN: 0022-3417.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199112
L6 ANSWER 6 OF 7 CAPLUS COPYRIGHT 1999 ACS
AN 1990:5644 CAPLUS
DN 112:5644
TI ***Ubiquitin*** and heat shock proteins in cultured
nervous tissue
after different stress conditions
AU Morandi, Antonio; Los, Brian; Osofsky, Laura;
Autilio-Gambetti, Lucila;
Gambetti, Pierluigi
CS Div. Neuropathol., Case West. Reserve Univ.,
Cleveland, OH, 44106, USA
SO Prog. Clin. Biol. Res. (1989), 317(Alzheimer's Dis.
Relat. Disord.),
819-27
CODEN: PCB RD2; ISSN: 0361-7742
DT Journal
LA English
L6 ANSWER 7 OF 7 MEDLINE
DUPLICATE 2
AN 87137895 MEDLINE
DN 87137895
TI Microinjection of ***ubiquitin*** : changes in protein
degradation in
HeLa cells subjected to heat-shock.
AU Carlson N; Rogers S; Rechsteiner M
NC GM27159 (NIGMS)
GM30445 (NIGMS)
SO JOURNAL OF CELL BIOLOGY, (1987 Mar) 104 (3)
547-55.
Journal code: HMV. ISSN: 0021-9525.
CY United States

DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
EM 198706

=> d his

(FILE 'HOME' ENTERED AT 15:37:22 ON 19 APR 1999)

FILE 'MEDLINE, CAPLUS' ENTERED AT 15:37:31
ON 19 APR 1999
L1 713179 S (FUSION# OR CHIMER? OR HYBRID?
OR CONJUGA?)
L2 117 S L1 (5A) (HEAT SHOCK PROTEIN? OR
HEAT SHOCK POLYPEPTIDE? OR HE
L3 2 S L2 (5A) EPITOP?
L4 9 S L2 AND UBIQUITIN
L5 0 S L4 AND EPITOPE
L6 7 DUP REM L4 (2 DUPLICATES REMOVED)

=> s l2 and epitopes

L7 4 L2 AND EPITOPE

=> dup rem l7

PROCESSING COMPLETED FOR L7
L8 3 DUP REM L7 (1 DUPLICATE REMOVED)

=> d 1-3

L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 1999 ACS
AN 1999:113796 CAPLUS
DN 130:195740
TI Membrane-bound cytokine compositions and methods of
modulating an immune
response using same
IN Soo, Hoo William
PA The Immune Response Corporation, USA
SO PCT Int. Appl., 91 pp.
CODEN: PXXD2
DT Patent
LA English
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION
NO. DATE

PI WO 9906544 A1 19990211 WO 98-US15622
19980728
W: AU, CA, JP
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR,
IE, IT, LU, MC, NL,
PT, SE
US 5891432 A 19990406 US 97-902516
19970729
PRAI US 97-902516 19970729

L8 ANSWER 2 OF 3 MEDLINE

DUPLICATE 1
AN 1999094960 MEDLINE
DN 99094960
TI Self ***heat*** - ***shock*** ***protein***
(hsp60) peptide
serves in a ***conjugate*** vaccine against a lethal
pneumococcal
infection.
AU Konen-Waisman S; Cohen A; Fridkin M; Cohen I R
CS Department of Immunology, Weizmann Institute of
Science, Rehovot, Israel.
SO JOURNAL OF INFECTIOUS DISEASES, (1999 Feb)
179 (2) 403-13.
Journal code: IH3. ISSN: 0022-1899.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 199904
EW 19990403

L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 1999 ACS
AN 1996:194446 CAPLUS
DN 124:257723
TI In vivo carrier effect of ***heat*** ***shock***
proteins
in ***conjugated*** vaccine constructs
AU Giudice, Giuseppe Del
CS Institute Biochemistry, University Lausanne, Switz.
SO Stress Proteins Med. (1996), 533-45. Editor(s): Van
Eden, Willem; Young,
Douglas B. Publisher: Dekker, New York, N. Y.
CODEN: 62NSA5
DT Conference; General Review
LA English

=> d 2 ab

L8 ANSWER 2 OF 3 MEDLINE
DUPLICATE 1
AB Healthy persons manifest a high frequency of T cells
reactive to
epitopes of the self 60-kDa heat-shock protein
(hsp60) molecule.
It was reasoned that a self hsp60 peptide, p458m, might
provide T cell
help for a response to the T independent capsular
polysaccharide of
Streptococcus pneumoniae type 4 (PS4). The conjugate
vaccine (PS4-p458m)
induced resistance to challenge with >300,000 times the
minimal lethal
dose of pneumococci. PS4 conjugated to other
immunogenic carriers (tetanus
toxoid, a pneumolysin peptide, and others) or a
commercial pneumococcal
vaccine were far less effective. The effectiveness of the
PS4-p458m
conjugate was associated with an increased IgG1 antibody
response to PS4,

with long-term memory, and with T cell responses to the p458m peptide.

Thus, T cell reactivity to a self epitope in a conjugate vaccine can be mobilized to induce help for resistance to a lethal infection.

=> d 3 ab

L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 1999 ACS AB A review with 50 refs. discussing PPD as a carrier mol. in animals

sensitized with BCG, ***heat*** ***shock*** ***proteins*** as carrier mols. for ***conjugated*** B-cell ***epitopes*** in order to avoid need for adjuvants, and prokaryotic heat shock proteins in vaccine constructs.

=> d 16 4 ab

L6 ANSWER 4 OF 7 MEDLINE

AB Considerable advances in our understanding of the molecular pathology of ,

the major human neurodegenerative diseases have been made by the use of ***ubiquitin*** immunocytochemistry. The technique demonstrates that filamentous inclusions and vacuoles contain ***ubiquitin*** -protein conjugates. The molecular structure of the filaments and the morphological type of vacuoles is not completely understood but there is evidence that some of the filamentous inclusions contain intermediate filaments and the

perinuclear distribution of the vacuoles resemble the distribution of intraneuronal lysosomes. Intermediate filaments and lysosomes are involved

in the sequestration and degradation of viral membrane proteins in tissue

culture cells. Immunogold electron microscopical and biochemical evidence

indicates that ***ubiquitin*** -protein conjugates are normally

considerably enriched in the lysosomes of fibroblasts relative to all

other organelles. Immunogold electron microscopy shows a similar

enrichment of ***ubiquitin*** -protein conjugates in the dense

lysosomes of granulocytic precursor cells in the bone marrow. Filamentous

inclusions showing several of the features seen in inclusions in the

neurodegenerative diseases are seen in Epstein-Barr virus transformed

lymphoblastoid cells. Immunohistochemistry shows that

the inclusions

contain vimentin intermediate filaments, the latent membrane transforming

protein of the virus, ***ubiquitin*** -protein ***conjugates*** , and a ***heat*** - ***shock*** ***protein*** 70 (hsp 70).

Immunohistochemistry and immunogold electron microscopy demonstrate that

the latent membrane protein, ***ubiquitin*** -protein conjugates and

hsp 70 are in lysosomes entwined in an intermediate filament cage centred

on the microtubule organising centre. The implications of the combined

observations for our understanding of the cell stress response in

degenerating neurones and in virally infected cells are discussed.

=> d his

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FILE 'MEDLINE, CAPLUS' ENTERED AT 15:37:31 ON 19 APR 1999

L1 713179 S (FUSION# OR CHIMER? OR HYBRID? OR CONJUGA?)

L2 117 S L1 (5A) (HEAT SHOCK PROTEIN? OR HEAT SHOCK POLYPEPTIDE? OR HE

L3 2 S L2 (5A) EPITOP?

L4 9 S L2 AND UBIQUITIN

L5 0 S L4 AND EPITOPE

L6 7 DUP REM L4 (2 DUPLICATES REMOVED)

L7 4 S L2 AND EPITOPE

L8 3 DUP REM L7 (1 DUPLICATE REMOVED)

=> s ubiquitin s ubiquitin

L9 7299 UBIQUITIN

=> s l1 and l9

L10 2859 L1 AND L9

=> s l10 (5a) epitope?

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE - 'AND' OPERATOR ASSUMED 'L24 (5A) EPITOPE?'

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE - 'AND' OPERATOR ASSUMED 'L25 (5A) EPITOPE?'

L11 80 L10 (5A) EPITOPE?

=> s l11,range =,1998

PROXIMITY OPERATOR LEVEL NOT CONSISTENT
WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L24 (5A)
EPITOPE?'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT
WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L25 (5A)
EPITOPE?'
L12 76 L11

=> dup rem l12

PROCESSING COMPLETED FOR L12
L13 50 DUP REM L12 (26 DUPLICATES
REMOVED)

=> d 1-50

L13 ANSWER 1 OF 50 CAPLUS COPYRIGHT 1999
ACS

AN 1998:682417 CAPLUS

DN 129:286713

TI Diagnosis of genetic disease arising from frameshift
mutation by RT-PCR

and ***hybridization*** or antibody assay, and
treatment with

hammerhead ribozyme cleavage of defective mRNA

IN Van Leeuwen, Frederik W.; Grosveld, Franklin G.;
Burbach, Johannes Peter

Henri

PA Royal Netherlands Academy of Arts and Sciences,
Neth.; Erasmus University

Rotterdam; University of Utrecht

SO PCT Int. Appl., 258 pp.

CODEN: PXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION
NO. DATE

PI WO 9845322 A2 19981015 WO 98-IB705
19980402
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA,
CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE,
KG, KP, KR, KZ,
LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
MW, MX, NO, NZ, PL,
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
TT, UA, UG, US,
UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT,
BE, CH, CY, DE, DK, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF,
BJ, CF, CG, CI,
CM, GA, GN, ML, MR, NE, SN, TD, TG
AU 9870715 A1 19981030 AU 98-70715
19980402

PRAI US 97-43163 19970410
WO 98-IB705 19980402

L13 ANSWER 2 OF 50 CAPLUS COPYRIGHT 1999

ACS

AN 1998:165497 CAPLUS

DN 128:214446

TI Insecticidal protein toxins from *Photorhabdus*

luminescens

IN Ensign, Jerald C.; Bowen, David J.; Petell, James; Fatig,
Raymond;

Schoonover, Sue; Ffrench-Constant, Richard H.;

Rocheleau, Thomas A.;

Blackburn, Michael B.; Hey, Timothy D.; Merlo, Donald
J.; Orr, Gregory L.;

Roberts, Jean L.; et al.

PA Dow Agrosciences LLC, USA; Wisconsin Alumni
Research Foundation

SO PCT Int. Appl., 321 pp.

CODEN: PXXD2

DT Patent

LA English

FAN.CNT 2

PATENT NO. KIND DATE APPLICATION
NO. DATE

PI WO 9808932 A1 19980305 WO 97-US7657
19970505

W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH,
CN, CZ, DE, DK, EE,
ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KR, KZ,
LK, LR, LS, LT,
LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,
PL, PT, RO, RU, SD, SE,
SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ,
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE

WO 9717432 A1 19970515 WO 96-US18003
19961106

W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH,
CN, CU, CZ, DE, DK,
EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP,
KR, KZ, LK, LR,
LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ,
VN, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM

RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK,
ES, FI, FR, GB, GR,
IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, ML,
MR, NE, SN, TD, TG

AU 9728299 A1 19980319 AU 97-28299

19970505

PRAI US 96-705484 19960828

US 96-743699 19961106

WO 96-US18003 19961106

US 95-7255 19951106

US 96-608423 19960228

WO 97-US7657 19970505

L13 ANSWER 3 OF 50 CAPLUS COPYRIGHT 1999
ACS

AN 1998:151239 CAPLUS

DN 128:202344

TI Transcription factor E2F ubiquitination domain, and assays for inhibitors

of E2F ubiquitination

IN Bernards, Rene

PA Vereniging Het Nederlands Kanker Instituut, Neth.; Prolifix Limited;

Bernards, Rene

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

PI WO 9807852 A1 19980226 WO 97-GB2293
19970822

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE,
KG, KP, KR, KZ,

LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
MW, MX, NO, NZ, PL,

PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
TT, UA, UG, US,

UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM

RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE,
CH, DE, DK, ES, FI, FR,
GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA,

GN, ML, MR, NE, SN, TD, TG
AU 9739510 A1 19980306 AU 97-39510
19970822

PRAI GB 96-17697 19960823

WO 97-GB2293 19970822

L13 ANSWER 4 OF 50 MEDLINE

DUPPLICATE 1

AN 1998225223 MEDLINE

DN 98225223

TI Characterization of a second member of the sentrin family of

ubiquitin -like proteins.

AU Kamitani T; Kito K; Nguyen H P; Fukuda-Kamitani T;
Yeh E T

CS Department of Internal Medicine, University of Texas-Houston Health

Science Center, Houston, Texas 77030, USA.

NC HL-45851 (NHLBI)

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 May 1) 273 (18) 11349-53.

Journal code: HIV. ISSN: 0021-9258.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; Cancer Journals

EM 199808

EW 19980801

L13 ANSWER 5 OF 50 CAPLUS COPYRIGHT 1999

ACS

AN 1998:811924 CAPLUS

DN 130:181262

TI ***Epitope*** -specific antibody and suppression of antibody responses against a ***hybrid*** self protein

AU Lohnas, Gerald L.; Roberts, Steven F.; Pilon, April; Tramontano, Alfonso

CS Phoenix Co., Gaithersburg, MD, 20877, USA

SO J. Immunol. (1998), 161(12), 6518-6525

CODEN: JOIMA3; ISSN: 0022-1767

PB American Association of Immunologists

DT Journal

LA English

L13 ANSWER 6 OF 50 MEDLINE

DUPPLICATE 2

AN 1998241760 MEDLINE

DN 98241760

TI DNA immunization with minigenes: low frequency of memory cytotoxic T lymphocytes and inefficient antiviral protection are rectified by ubiquitination.

AU Rodriguez F; An L L; Harkins S; Zhang J; Yokoyama M; Widera G; Fuller J T;

Kincaid C; Campbell I L; Whitton J L

CS Department of Neuropharmacology, The Scripps Research Institute, La Jolla,

California 92037, USA.

NC AI-37186 (NIAID)

MH-50426 (NIMH)

SO JOURNAL OF VIROLOGY, (1998 Jun) 72 (6)

5174-81.

Journal code: KCV. ISSN: 0022-538X.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; Cancer Journals

EM 199807

EW 19980705

L13 ANSWER 7 OF 50 MEDLINE

DUPPLICATE 3

AN 1998451768 MEDLINE

DN 98451768

TI Induction of MHC class I-restricted CTL response by DNA immunization with

ubiquitin -influenza virus nucleoprotein

fusion antigens.

AU Fu T M; Guan L; Friedman A; Ulmer J B; Liu M A; Donnelly J J

CS Department of Virus and Cell Biology, Merck Research Laboratories, West

Point, PA 19486, USA.

SO VACCINE, (1998 Nov) 16 (18) 1711-7.

Journal code: X6O. ISSN: 0264-410X.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199902
EW 19990204

L13 ANSWER 8 OF 50 CAPLUS COPYRIGHT 1999
ACS
AN 1998:559844 CAPLUS
DN 129:30118
TI Nuclear inclusions of the androgen receptor protein in spinal and bulbar muscular atrophy
AU Li, Mei; Miwa, Shigeru; Kobayashi, Yasushi; Merry, Diane E.; Yamamoto, Masahiko; Tanaka, Fumiaki; Doyu, Manabu; Hashizume, Yoshio; Fischbeck, Kenneth H.; Sobue, Gen
CS Department of Neurology, Nagoya Univ. School of Medicine, Nagoya, Japan
SO Ann. Neurol. (1998), 44(2), 249-254
CODEN: ANNED3; ISSN: 0364-5134
PB Lippincott-Raven Publishers
DT Journal
LA English

L13 ANSWER 9 OF 50 MEDLINE
AN 1998191690 MEDLINE
DN 98191690
TI Production and characterization of a monoclonal antibody specific for ***ubiquitin*** -like polypeptide responsible for nonspecific immune suppression.
AU Narai Y; Nakamura M; Kondoh T; Tanigawa Y
CS Department of Biochemistry, Shimane Medical University, Izumo, Japan.
SO JOURNAL OF IMMUNOASSAY, (1998 Feb) 19 (1) 49-62.
Journal code: HS8. ISSN: 0197-1522.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199807
EW 19980703

L13 ANSWER 10 OF 50 CAPLUS COPYRIGHT 1999
ACS
AN 1998:246473 CAPLUS
DN 129:39700
TI ***Ubiquitin*** (Ub) interacts non-covalently with Alzheimer amyloid precursor protein (.beta.PP): isolation of Ub-.beta.PP ***conjugates*** from brain extracts
AU Master, Emma; Chan, Sic L.; Ali-Khan, Zafer
CS Department of Microbiology and Immunology, McGill University, Montreal,

PQ, H3A 2B4, Can.
SO Alzheimer's Res. (1998), 4(1), 19-25
CODEN: ALREFB; ISSN: 1356-918X
PB Rapid Science Ltd.
DT Journal
LA English

L13 ANSWER 11 OF 50 MEDLINE
DUPLICATE 4
AN 1998070406 MEDLINE
DN 98070406
TI The C2 domain of the ***ubiquitin*** protein ligase Nedd4 mediates Ca²⁺-dependent plasma membrane localization.
AU Plant P J; Yeger H; Staub O; Howard P; Rotin D
CS Division of Respiratory Research, Toronto, Ontario M5G 1X8, Canada.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997 Dec 19) 272 (51) 32329-36.
Journal code: HIV. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
EM 199803
EW 19980304

L13 ANSWER 12 OF 50 MEDLINE
DUPLICATE 5
AN 1998058982 MEDLINE
DN 98058982
TI Differential ***ubiquitin*** -dependent degradation of the yeast apo-cytochrome c isozymes.
AU Pearce D A; Sherman F
CS Department of Biochemistry and Biophysics, University of Rochester School of Medicine and Dentistry, Rochester, New York 14642, USA.
NC R01 GM 12702 (NIGMS)
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997 Dec 12) 272 (50) 31829-36.
Journal code: HIV. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
EM 199803
EW 19980303

L13 ANSWER 13 OF 50 MEDLINE
DUPLICATE 6
AN 1998019230 MEDLINE
DN 98019230
TI Characterization of NEDD8, a developmentally down-regulated ***ubiquitin*** -like protein.
AU Kamitani T; Kito K; Nguyen H P; Yeh E T
CS Division of Molecular Medicine, Department of Internal Medicine, The University of Texas-Houston Health Science Center,

Houston, Texas 77030,
USA.

NC HL-45851 (NHLBI)

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997
Nov 7) 272 (45) 28557-62.

Journal code: HIV. ISSN: 0021-9258.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; Cancer Journals

EM 199802

EW 19980204L13 ANSWER 14 OF 50 MEDLINE
DUPLICATE 7

AN 97306290 MEDLINE

DN 97306290

TI Preferential modification of nuclear proteins by a novel
ubiquitin
-like molecule.

AU Kamitani T; Nguyen H P; Yeh E T

CS Division of Molecular Medicine, Department of Internal
Medicine and

Cardiovascular Research Center, Institute of Molecular
Medicine for the

Prevention of Human Diseases, The University of
Texas-Houston Health

Science Center, Houston, Texas 77030, USA.

NC HL-45851 (NHLBI)

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997
May 30) 272 (22) 14001-4.

Journal code: HIV. ISSN: 0021-9258.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; Cancer Journals

EM 199709

EW 19970901

L13 ANSWER 15 OF 50 MEDLINE

DUPLICATE 8

AN 1998024180 MEDLINE

DN 98024180

TI Inhibition of ***ubiquitin*** /proteasome-dependent
protein degradation

by the Gly-Ala repeat domain of the Epstein-Barr virus
nuclear antigen 1.

AU Levitskaya J; Sharipo A; Leonchiks A; Ciechanover A;
Masucci M G

CS Microbiology and Tumor Biology Center, Karolinska
Institute, Box 280,
S-171 77 Stockholm, Sweden.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF
SCIENCES OF THE UNITED STATES OF
AMERICA, (1997 Nov 11) 94 (23) 12616-21.

Journal code: PV3. ISSN: 0027-8424.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; Cancer Journals

EM 199802

EW 19980204

L13 ANSWER 16 OF 50 MEDLINE

DUPLICATE 9

AN 97439561 MEDLINE

DN 97439561

TI ***Ubiquitin*** (Ub) interacts non-covalently with
Alzheimer amyloid
precursor protein (betaPP): isolation of Ub-betaPP
conjugates
from brain extracts.

AU Master E; Chan S L; Ali-Khan Z

CS Department of Microbiology and Immunology, McGill
University, Montreal,
Quebec, Canada.

SO NEUROREPORT, (1997 Aug 18) 8 (12) 2781-6.

Journal code: A6M. ISSN: 0959-4965.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199712

EW 19971204

L13 ANSWER 17 OF 50 MEDLINE

DUPLICATE 10

AN 97180891 MEDLINE

DN 97180891

TI Regulation of class I-restricted ***epitope***
processing by local or
distal flanking sequence.

AU Yellen-Shaw A J; Eisenlohr L C

CS Kimmel Cancer Institute, Jefferson Medical College,
Philadelphia, PA
19107, USA.

SO JOURNAL OF IMMUNOLOGY, (1997 Feb 15) 158
(4) 1727-33.

Journal code: IFB. ISSN: 0022-1767.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Abridged Index Medicus Journals; Priority Journals;
Cancer Journals

EM 199705

EW 19970502

L13 ANSWER 18 OF 50 MEDLINE

DUPLICATE 11

AN 1998226411 MEDLINE

DN 98226411

TI Induction of cross-reactive antibodies against a self
protein by

immunization with a modified self protein containing a
foreign T helper

epitope

AU Dalum I; Jensen M R; Gregorius K; Thomasen C M;
Elsner H I; Mouritsen S

CS M&E Biotech A/S, Horsholm, Denmark.

SO MOLECULAR IMMUNOLOGY, (1997 Nov-Dec) 34
(16-17) 1113-20.

Journal code: NG1. ISSN: 0161-5890.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

ER 160-156

LA English
FS Priority Journals; Cancer Journals
EM 199807
EW 19980703

L13 ANSWER 19 OF 50 CAPLUS COPYRIGHT 1999
ACS
AN 1996:718327 CAPLUS
DN 126:6443
TI Expression library immunization
IN Johnston, Stephen A.; Barry, Michael A.; Lai, Wayne C.
PA Board of Regents, the University of Texas System, USA
SO PCT Int. Appl., 100 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION
NO. DATE

PI WO 9631613 A1 19961010 WO 96-US4561
19960403
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH,
CN, CZ, DE, DK, EE,
ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ,
LK, LR, LS, LT,
LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,
PL, PT, RO, RU, SD, SE,
SG, SI
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK,
ES, FI, FR, GB, GR,
IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, ML
US 5703057 A 19971230 US 95-421155
19950407
CA 2216092 AA 19961010 CA 96-2216092
19960403
AU 9653843 A1 19961023 AU 96-53843
19960403
EP 819177 A1 19980121 EP 96-910725
19960403
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU,
NL, SE, MC, PT,
IE, SI, LT, LV, FI
JP 11503607 T2 19990330 JP 96-530449
19960403
PRAI US 95-421155 19950407
WO 96-US4561 19960403

L13 ANSWER 20 OF 50 MEDLINE
AN 96421575 MEDLINE
DN 96421575
TI mUBC9, a novel adenovirus E1A-interacting protein that
complements a yeast
cell cycle defect.
AU Hateboer G; Hijmans E M; Nooij J B; Schlenker S;
Jentsch S; Bernards R
CS Division of Molecular Carcinogenesis, Netherlands
Cancer Institute,
Plesmanlaan 121, 1066 CX Amsterdam, The Netherlands.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996

Oct 18) 271 (42) 25906-11.
Journal code: HIV. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
OS GENBANK-X99739
EM 199701
EW 19970104
L13 ANSWER 21 OF 50 MEDLINE
DUPLICATE 12
AN 96210035 MEDLINE
DN 96210035
TI Ubiquitination mediated by the Npl1p/Rsp5p
ubiquitin -protein
ligase is required for endocytosis of the yeast uracil
permease.
AU Galan J M; Moreau V; Andre B; Volland C;
Haguenauer-Tsapis R
CS Institut Jacques Monod/CNRS, Universite Paris7-Denis
Diderot, France.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996
May 3) 271 (18) 10946-52.
Journal code: HIV. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
EM 199609
L13 ANSWER 22 OF 50 MEDLINE
DUPLICATE 13
AN 96205980 MEDLINE
DN 96205980
TI Role of IkappaBalpha ubiquitination in signal-induced
activation of
NFkappaB in vivo.
AU Roff M; Thompson J; Rodriguez M S; Jacque J M;
Baleux F;
Arenzana-Seisdedos F; Hay R T
CS School of Biological and Medical Sciences, University of
St. Andrews,
Fife, Scotland.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996
Mar 29) 271 (13) 7844-50.
Journal code: HIV. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
EM 199609
L13 ANSWER 23 OF 50 MEDLINE
AN 97098704 MEDLINE
DN 97098704
TI Breaking of B cell tolerance toward a highly conserved
self protein.
AU Dalum I; Jensen M R; Hindersson P; Elsner H I;
Mouritsen S
CS M&E A/S, Department of Basic Immunology,
Copenhagen, Denmark.

SO JOURNAL OF IMMUNOLOGY, (1996 Dec 1) 157
(11) 4796-804.

Journal code: IFB. ISSN: 0022-1767.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Abridged Index Medicus Journals; Priority Journals;
Cancer Journals

EM 199703

EW 19970301

L13 ANSWER 24 OF 50 MEDLINE

AN 96326672 MEDLINE

DN 96326672

TI Ubiquitination of the yeast a-factor receptor.

AU Roth A F; Davis N G

CS Department of Surgery, Wayne State University School
of Medicine, Detroit,

MI 48201, USA.

SO JOURNAL OF CELL BIOLOGY, (1996 Aug) 134 (3)
661-74.

Journal code: HMV. ISSN: 0021-9525.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; Cancer Journals

EM 199611

L13 ANSWER 25 OF 50 CAPLUS COPYRIGHT 1999

ACS

AN 1995:632146 CAPLUS

DN 123:31229

TI Inducing antibody response against self-proteins with the
aid of foreign

T-cell ***epitopes***

IN Mouritsen, Soeren; Elsner, Henrik

PA Mouritsen and Elsner A/S, Den.

SO PCT Int. Appl., 31 pp.

CODEN: PXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION
NO. DATE

PI WO 9505849 A1 19950302 WO 94-DK318
19940825

W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ,
DE, DK, EE, ES, FI,

GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT,
LU, LV, MD, MG, MN,

MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI,
SK, TJ, TT, UA, US,

UZ, VN

RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB,
GR, IE, IT, LU, MC,

NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,
MR, NE, SN, TD, TG

CA 2170236 AA 19950302 CA 94-2170236

19940825

AU 9476080 A1 19950321 AU 94-76080

19940825
EP 752886 A1 19970115 EP 94-926106

19940825
EP 752886 B1 19980128
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI,
LU, MC, NL, PT, SE
JP 09505031 T2 19970520 JP 94-507278

19940825
AT 162723 E 19980215 AT 94-926106
19940825
ES 2112559 T3 19980401 ES 94-926106

19940825
AU 9870091 A1 19980730 AU 98-70091
19980611
PRAI DK 93-964 19930826
WO 94-DK318 19940825

L13 ANSWER 26 OF 50 MEDLINE

DUPLICATE 14

AN 95275820 MEDLINE

DN 95275820

TI The yeast UBC4 ***ubiquitin***
conjugating enzyme

monoubiquitinates itself in vivo: evidence for an E2-E2
homointeraction.

AU Gwozd C S; Arnason T G; Cook W J; Chau V; Ellison
M J

CS Department of Biochemistry, University of Alberta,
Edmonton, Canada..

SO BIOCHEMISTRY, (1995 May 16) 34 (19) 6296-302.
Journal code: A0G. ISSN: 0006-2960.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199509

L13 ANSWER 27 OF 50 MEDLINE

DUPLICATE 15

AN 95155311 MEDLINE

DN 95155311

TI Regulation of inositol transport in Saccharomyces
cerevisiae involves

inositol-induced changes in permease stability and
endocytic degradation

in the vacuole.

AU Lai K; Bolognese C P; Swift S; McGraw P

CS Department of Biological Sciences, University of
Maryland, Baltimore

21228..

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1995
Feb 10) 270 (6) 2525-34.

Journal code: HIV. ISSN: 0021-9258.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; Cancer Journals

EM 199505

L13 ANSWER 28 OF 50 MEDLINE

AN 95324066 MEDLINE

DN 95324066
 TI PGP9.5, a ***ubiquitin*** C-terminal hydrolase; pattern of mRNA and protein expression during neural development in the mouse.
 AU Schofield J N; Day I N; Thompson R J; Edwards Y H
 CS MRC, Human Biochemical Genetics Unit, University College London, UK..
 SO BRAIN RESEARCH. DEVELOPMENTAL BRAIN RESEARCH, (1995 Apr 18) 85 (2) 229-38.
 Journal code: DBR. ISSN: 0165-3806.
 CY Netherlands
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199510

L13 ANSWER 29 OF 50 CAPLUS COPYRIGHT 1999 ACS
 AN 1995:971197 CAPLUS
 DN 124:113497
 TI Colocalization of ***ubiquitin*** and serum amyloid A and ***ubiquitin*** -bound AA in the endosomes-lysosomes: A double immunogold electron microscopic study
 AU Chronopoulos, Soula; Chan, Sic L.; Ratcliffe, Michael J. H.; Ali-Khan,
 Zafer
 CS Department Microbiology and Immunology, McGill University, Montreal, PQ,
 H3A 2B4, Can.
 SO Amyloid (1995), 2(3), 191-4
 CODEN: ALJET; ISSN: 1350-6129
 DT Journal
 LA English

L13 ANSWER 30 OF 50 CAPLUS COPYRIGHT 1999 ACS
 AN 1995:290253 CAPLUS
 DN 122:103928
 TI Hepatitis C virus (HCV) proteins as diagnostic agents
 IN Cho, Joong Myung; Choi, Deog Young; Kim, Chun Hyung; So, Hong Seob; Yang,
 Jae Young; Kim, In Soo; Kim, Joo Ho
 PA Lucky Ltd., S. Korea
 SO PCT Int. Appl., 89 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1
 PATENT NO. KIND DATE APPLICATION
 NO. DATE

| PI | WO 9425486 | A1 | 19941110 | WO 94-KR40 |
|----|-----------------|----|----------|--------------|
| | 19940429 | | | |
| | W: CN, JP, US | | | |
| | CN 1122139 | A | 19960508 | CN 94-191954 |
| | 19940429 | | | |
| | JP 08506833 | T2 | 19960723 | JP 94-524114 |
| | 19940429 | | | |
| | PRAI KR 93-7440 | | 19930430 | |

WO 94-KR40 19940429
 L13 ANSWER 31 OF 50 MEDLINE
 DUPLICATE 16
 AN 95105211 MEDLINE
 DN 95105211
 TI Human ***ubiquitin*** -activating enzyme, E1. Indication of potential nuclear and cytoplasmic subpopulations using ***epitope*** -tagged cDNA constructs.
 AU Handley-Gearhart P M; Stephen A G; Trausch-Azar J S;
 Ciechanover A;
 Schwartz A L
 CS Edward Mallinckrodt Department of Pediatrics,
 Washington University School
 of Medicine, St. Louis, Missouri.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1994 Dec 30) 269 (52) 33171-8.
 Journal code: HIV. ISSN: 0021-9258.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals; Cancer Journals
 EM 199504
 L13 ANSWER 32 OF 50 MEDLINE
 AN 94326915 MEDLINE
 DN 94326915
 TI Production and characterization of monoclonal antibodies specific to multi- ***ubiquitin*** chains of polyubiquitinated proteins.
 AU Fujimuro M; Sawada H; Yokosawa H
 CS Department of Biochemistry, Faculty of Pharmaceutical Sciences, Hokkaido
 University, Sapporo, Japan..
 SO FEBS LETTERS, (1994 Aug 1) 349 (2) 173-80.
 Journal code: EUH. ISSN: 0014-5793.
 CY Netherlands
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals; Cancer Journals
 EM 199411
 L13 ANSWER 33 OF 50 MEDLINE
 DUPLICATE 17
 AN 94366627 MEDLINE
 DN 94366627
 TI Two types of dystrophic neurites in senile plaques of Alzheimer disease and elderly non-demented cases.
 AU Yasuhara O; Kawamata T; Aimi Y; McGeer E G;
 McGeer P L
 CS Kinsmen laboratory of Neurological Research,
 Department of Psychiatry,
 University of British Columbia, Vancouver, Canada.
 SO NEUROSCIENCE LETTERS, (1994 Apr 25) 171 (1-2) 73-6.
 Journal code: N7N. ISSN: 0304-3940.
 CY Ireland

DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199412

L13 ANSWER 34 OF 50 CAPLUS COPYRIGHT 1999
ACS

AN 1993:510575 CAPLUS

DN 119:110575

TI Hepatitis C virus Korean strain and diagnostics and vaccines for hepatitis

C

IN Cho, Joong Myung; Lee, Yong Beom; Park, Young Woo; Lim, Kook Jin; Choi, Deog Young; So, Hong Seob; Kim, Chun Hyung; Kim, Sung Taek; Yang, Jae Young

PA Lucky Ltd., S. Korea

SO Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION
NO. DATE

PI EP 521318 A2 19930107 EP 92-109753
19920610

EP 521318 A3 19930428
R: BE, CH, DE, DK, ES, FR, GR, IT, LI, LU, MC,
NL, PT, SE

WO 9222655 A1 19921223 WO 92-KR22
19920608

W: AT, AU, BR, CA, ES, GB, JP, US
AU 9219028 A1 19930112 AU 92-19028
19920608

AU 659649 B2 19950525
GB 2272443 A1 19940518 GB 93-24607
19920608

GB 2272443 B2 19951025
JP 06508024 T2 19940914 JP 92-510803
19920608

BR 9206131 A 19950502 BR 92-6131
19920608

AT 9209013 A 19980915 AT 92-9013
19920608

AT 405053 B 19990525
CN 1068335 A 19930127 CN 92-104338
19920610

PRAI KR 91-9510 19910610
KR 91-13601 19910806
WO 92-KR22 19920608

L13 ANSWER 35 OF 50 CAPLUS COPYRIGHT 1999
ACS

AN 1993:58095 CAPLUS

DN 118:58095

TI Preparation of feline coronavirus S protein antigens for use in infectious peritonitis vaccines

IN Miller, Timothy J.; Reed, Albert Paul; Klefer, Sharon

R.; Pfeiffer, Nancy
E.; Suiter, Brian T.; Jones, Elaine V.
PA Smithkline Beecham Corp., USA
SO PCT Int. Appl., 183 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION
NO. DATE

PI WO 9208487 A1 19920529 WO 91-US8525
19911114

W: AU, CA, JP, KR, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU,
NL, SE

ZA 9108988 A 19921230 ZA 91-8988

19911113 CA 2096010 AA 19920515 CA 91-2096010

19911114 AU 9191286 A1 19920611 AU 91-91286

19911114 AU 666298 B2 19960208

EP 557455 A1 19930901 EP 92-901767

19911114 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU,

NL, SE

JP 06502768 T2 19940331 JP 92-502295

19911114

PRAI US 90-613066 19901116

US 91-698927 19910513

WO 91-US8525 19911114

L13 ANSWER 36 OF 50 MEDLINE

DUPPLICATE 18

AN 92348449 MEDLINE

DN 92348449

TI cDNA cloning of a novel human ***ubiquitin***

carrier protein. An

antigenic domain specifically recognized by endemic pemphigus foliaceus

autoantibodies is encoded in a secondary reading frame of this human

epidermal transcript.

AU Liu Z; Diaz L A; Haas A L; Giudice G J

CS Department of Dermatology, Medical College of Wisconsin, Milwaukee.

NC R01-AR32599 (NIAMS)

R01-AR32081 (NIAMS)

R01-GM34009 (NIGMS)

+

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1992

Aug 5) 267 (22) 15829-35.

Journal code: HIV. ISSN: 0021-9258.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; Cancer Journals

OS GENBANK-M91670; GENBANK-M91646;

GENBANK-M91647; GENBANK-M63383;

GENBANK-M86615; GENBANK-M86616;

GENBANK-M86617; GENBANK-M86618;
GENBANK-M86619; GENBANK-M86620
EM 199211

L13 ANSWER 37 OF 50 MEDLINE
DUPLICATE 19
AN 92250462 MEDLINE
DN 92250462
TI Expression of a ***ubiquitin*** derivative that ***conjugates*** to protein irreversibly produces phenotypes consistent with

a ***ubiquitin*** deficiency.

AU Hodgins R R; Ellison K S; Ellison M J
CS Department of Biochemistry, University of Alberta, Edmonton, Canada..
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1992 May 5) 267 (13) 8807-12.
Journal code: HIV. ISSN: 0021-9258.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
EM 199208

L13 ANSWER 38 OF 50 CAPLUS COPYRIGHT 1999
ACS
AN 1992:188737 CAPLUS
DN 116:188737
TI A strategy for the generation of conditional mutations by protein destabilization
AU Park, Eun Chung; Finley, Daniel; Szostak, Jack W.
CS Dep. Mol. Biol., Massachusetts Gen. Hosp., Boston, MA, 02114, USA
SO Proc. Natl. Acad. Sci. U. S. A. (1992), 89(4), 1249-52
CODEN: PNASA6; ISSN: 0027-8424
DT Journal
LA English

L13 ANSWER 39 OF 50 MEDLINE
DUPLICATE 20
AN 92408945 MEDLINE
DN 92408945
TI Ballooned neurons in several neurodegenerative diseases and stroke contain alpha B crystallin.
AU Lowe J; Errington D R; Lennox G; Pike I; Spendlove I; Landon M; Mayer R J
CS Department of Pathology, University of Nottingham Medical School, Queens Medical Centre, UK.
SO NEUROPATHOLOGY AND APPLIED NEUROBIOLOGY, (1992 Aug) 18 (4) 341-50.
Journal code: NY0. ISSN: 0305-1846.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199212

L13 ANSWER 40 OF 50 MEDLINE
DUPLICATE 21
AN 92041990 MEDLINE
DN 92041990
TI ***Epitope*** -tagged ***ubiquitin*** . A new probe for analyzing ***ubiquitin*** function.

AU Ellison M J; Hochstrasser M
CS Department of Biology, Massachusetts Institute of Technology, Cambridge 02139..
NC AG08991 (NIA)
DK39520 (NIDDK)
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1991 Nov 5) 266 (31) 21150-7.
Journal code: HIV. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
EM 199202

L13 ANSWER 41 OF 50 MEDLINE
DUPLICATE 22
AN 91172760 MEDLINE
DN 91172760
TI Ultrastructural localization of beta-amyloid, tau, and ***ubiquitin*** ***epitopes*** in extracellular neurofibrillary tangles.
AU Tabaton M; Cammarata S; Mancardi G; Manetto V; Autilio-Gambetti L; Perry G; Gambetti P
CS Department of Neurology, University of Genoa, Italy.
NC NS-14509 (NINDS)
K04-AG00415 (NIA)
AG07552 (NIA)
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1991 Mar 15) 88 (6) 2098-102.
Journal code: PV3. ISSN: 0027-8424.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
EM 199106

L13 ANSWER 42 OF 50 MEDLINE
AN 92139942 MEDLINE
DN 92139942
TI Tau- ***ubiquitin*** protein ***conjugates*** in a human cell line.
AU Mesco E R; Timiras P S
CS University of California, Department of Molecular and Cellular Biology, Berkeley 94720.
SO MECHANISMS OF AGEING AND DEVELOPMENT, (1991 Nov 15) 61 (1) 1-9.
Journal code: LMJ. ISSN: 0047-6374.
CY Switzerland
DT Journal; Article; (JOURNAL ARTICLE)
LA English

FS Priority Journals
EM 199205

L13 ANSWER 43 OF 50 MEDLINE
DUPLICATE 23

AN 90280472 MEDLINE

DN 90280472

TI ATP-induced loss of Alz-50 immunoreactivity with the A68 proteins from

Alzheimer brain is mediated by ***ubiquitin***.

AU Vincent I J; Davies P

CS Department of Pathology and Neuroscience, Albert Einstein College of

Medicine, Bronx, NY 10461.

NC AG06803 (NIA)

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1990 Jun) 87 (12) 4840-4.

Journal code: PV3. ISSN: 0027-8424.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; Cancer Journals

EM 199009

L13 ANSWER 44 OF 50 CAPLUS COPYRIGHT 1999
ACS

AN 1989:473238 CAPLUS

DN 111:73238

TI The effect of poly(ADP-ribosylation) on native and H1-depleted chromatin.

A role of poly(ADP-ribosylation) on core nucleosome structure

AU Huletsky, Ann; De Murcia, Gilbert; Muller, Sylviane; Hengartner, Michel;

Menard, Luc; Lamarre, Daniel; Poirier, Guy G.

CS Cent. Rech. Cancerol., Univ. Laval Hotel-Dieu, Quebec, PQ, G1R 2J6, Can.

SO J. Biol. Chem. (1989), 264(15), 8878-86
CODEN: JBCHA3; ISSN: 0021-9258

DT Journal

LA English

L13 ANSWER 45 OF 50 CAPLUS COPYRIGHT 1999
ACS

AN 1989:435306 CAPLUS

DN 111:35306

TI Partial purification and peptide mapping of ***ubiquitin***

-phytochrome ***conjugates*** from oat

AU Shanklin, John; Jabben, Merten; Vierstra, Richard D.
CS Dep. Hortic., Univ. Wisconsin, Madison, WI, 53706, USA

SO Biochemistry (1989), 28(14), 6028-34
CODEN: BICHAW; ISSN: 0006-2960

DT Journal

LA English

L13 ANSWER 46 OF 50 MEDLINE

DUPLICATE 24

AN 89215822 MEDLINE

DN 89215822

TI Immunochemical properties of ***ubiquitin*** ***conjugates*** in

the paired helical filaments of Alzheimer disease.

AU Perry G; Mulvihill P; Fried V A; Smith H T;

Grundke-Iqbali I; Iqbal K

CS Division of Neuropathology, Case Western Reserve University, Cleveland, Ohio 44106.

NC AG00795 (NIA)

AG07552 (NIA)

AG04220 (NIA)

+

SO JOURNAL OF NEUROCHEMISTRY, (1989 May) 52 (5) 1523-8.

Journal code: JAV. ISSN: 0022-3042.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 198908

L13 ANSWER 47 OF 50 MEDLINE

AN 90099519 MEDLINE

DN 90099519

TI ***Ubiquitin*** : a multifunctional regulatory protein associated with

the cytoskeleton.

AU Fried V A; Smith H T

CS Department of Biochemistry, St. Jude Children's Research Hospital,

Memphis, TN 38101.

NC GM 31461 (NIGMS)

GM 40616 (NIGMS)

CA 21765 (NCI)

SO PROGRESS IN CLINICAL AND BIOLOGICAL RESEARCH, (1989) 317 733-44. Ref: 24

Journal code: PZ5. ISSN: 0361-7742.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LA English

FS Priority Journals

EM 199004

L13 ANSWER 48 OF 50 MEDLINE

DUPLICATE 25

AN 89010523 MEDLINE

DN 89010523

TI Defective presentation to class I-restricted cytotoxic T lymphocytes in

vaccinia-infected cells is overcome by enhanced degradation of antigen.

AU Townsend A; Bastin J; Gould K; Brownlee G; Andrew M; Coupar B; Boyle D;

Chan S; Smith G

CS Institute for Molecular Medicine, John Radcliffe Hospital, Headington, Oxford..

SO JOURNAL OF EXPERIMENTAL MEDICINE, (1988

Oct 1) 168 (4) 1211-24.
Journal code: I2V. ISSN: 0022-1007.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
EM 198901

L13 ANSWER 49 OF 50 CAPLUS COPYRIGHT 1999
ACS
AN 1987:552422 CAPLUS
DN 107:152422
TI Monoclonal antibody to paired helical filaments
AU Mori, Hiroshi
CS Dep. Clin. Physiol., Tokyo Metrop. Inst. Gerontol.,
Tokyo, 173, Japan
SO Shinkei Kenkyu no Shinpo (1987), 31(2), 339-45
CODEN: SKNSAF; ISSN: 0001-8724
DT Journal
LA Japanese

L13 ANSWER 50 OF 50 MEDLINE
DUPLICATE 26
AN 86122903 MEDLINE
DN 86122903
TI Expression cloning of a lymphocyte homing receptor
cDNA: ***ubiquitin***
is the reactive species.
AU St. John T; Gallatin W M; Siegelman M; Smith H T;
Fried V A; Weissman I L
NC AI19512 (NIAID)
GM 31461 (NIGMS)
CA 09151 (NCI)
SO SCIENCE, (1986 Feb 21) 231 (4740) 845-50.
Journal code: UJ7. ISSN: 0036-8075.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
OS GENBANK-M11690; GENBANK-M11691
EM 198605

=> d l13 17 bib ab

L13 ANSWER 17 OF 50 MEDLINE
DUPLICATE 10
AN 97180891 MEDLINE
DN 97180891
TI Regulation of class I-restricted ***epitope***
processing by local or
distal flanking sequence.
AU Yellen-Shaw A J; Eisenlohr L C
CS Kimmel Cancer Institute, Jefferson Medical College,
Philadelphia, PA
19107, USA.
SO JOURNAL OF IMMUNOLOGY, (1997 Feb 15) 158
(4) 1727-33.
Journal code: IFB. ISSN: 0022-1767.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)

LA English
FS Abridged Index Medicus Journals; Priority Journals;
Cancer Journals
EM 199705
EW 19970502
AB Influenza A/Puerto Rico/8/34 nucleoprotein (NP)
contains an
H-2Kd-restricted CD8+ T cell (T CD8+) ***epitope***
spanning amino
acid residues 147-155. It was previously demonstrated that
expression of
NP147-155 and NP147-158 in isolation via
"minigene"/recombinant vaccinia
virus (vac) technology leads to sensitization of target cells
for
NP-specific killing while expression of 147-158 lacking
the arginine at
position 156 (termed here as 147-155TG) does not. The
presentation block
was overcome by placing this fragment into the context of
full length NP.
We show that addition of a single amino acid, Met159, to
the C terminus of
the blocked peptide (creating 147-155TGM) restores
presentation.
Presentation of 147-155TGM was not due to trimming in
the exocytic
compartment, consistent with severe limitations on
C-terminal trimming
activity in this location. Rescued presentation was also
achieved when the
blocked construct was extended in the N-terminal
direction only, but in
this case more than 55 amino acids of flanking sequence
were required. The
transition to presentation was abrupt, with 91-155TG and
shorter
constructs showing little or no detectable presentation and
90-155TG
showing full level presentation. Presentation could not be
attributed to
acquisition of conventional targets for ubiquitination since
mutation of
all Lys residues, to which the ***ubiquitin*** moiety is
conjugated, does not abrogate presentation.
Rescued presentation
was not inhibited by the peptide aldehyde
N-acetyl-L-leucinyl-L-leucinal-L-
norleucinal, suggesting that the added elements may be
recruiting
nonproteasomal activity. We have therefore identified and
begun to
characterize protease targeting of regulatory elements,
both local and
distal to an ***epitope***, which strongly influence the
ability of
the ***epitope*** to be excised.

=> d l13 19 cbib ab

L13 ANSWER 19 OF 50 CAPLUS COPYRIGHT 1999
ACS
1996:718327 Document No. 126:6443 Expression library
immunization.
Johnston, Stephen A.; Barry, Michael A.; Lai, Wayne C.
(Board of Regents,
the University of Texas System, USA). PCT Int. Appl.
WO 9631613 A1
19961010, 100 pp. DESIGNATED STATES: W: AL,
AM, AT, AU, AZ, BB, BG, BR,
BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU,
IS, JP, KE, KG, KP,
KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
MW, MX, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, RW: AT, BE, BF, BJ, CF, CG,
CH, CI, CM, DE, DK,
ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, NL, PT,
SE. (English).

CODEN: PIXXD2. APPLICATION: WO 96-US4561
19960403. PRIORITY: US
95-421155 19950407.
AB A general method for vaccinating against any pathogen
is presented. The
method utilizes expression library immunization, where an
animal is
inoculated with an expression library constructed from
fragmented genomic
DNA of the pathogen. All potential ***epitopes*** of
the pathogen's
proteins are encoded in its DNA, and genetic
immunization is used to
directly introduce one or more expression library clones to the
immune
system, producing an immune response to the encoded
protein. Inoculation
of expression libraries representing portions of the
Mycoplasma pulmonis
genome, was shown to protect mice from subsequent
challenge by this
natural pathogen. Protection against Listeria was also
obtained using the
method.

=> d l13 25 cbib ab

L113 NOT FOUND

The L-number entered has not been defined in this session, or it
has been deleted. To see the L-numbers currently defined in this
session, enter DISPLAY HISTORY at an arrow prompt (>=).

=> d l13 25 cbib ab

L13 ANSWER 25 OF 50 CAPLUS COPYRIGHT 1999
ACS
1995:632146 Document No. 123:31229 Inducing antibody
response against
self-proteins with the aid of foreign T-cell
epitopes

Mouritsen, Soeren; Elsner, Henrik (Mouritsen and Elsner
A/S, Den.). PCT
Int. Appl. WO 9505849 A1 19950302, 31 pp.
DESIGNATED STATES: W: AM, AT,
AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,
ES, FI, GB, GE, HU, JP,
KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN,
MW, NL, NO, NZ, PL, PT,
RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN; RW:
AT, BE, BF, BJ, CF,
CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT,
LU, MC, ML, MR, NE,
NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
APPLICATION: WO
94-DK318 19940825. PRIORITY: DK 93-964
19930826.
AB A novel method for utilizing the immune app. to remove
and/or
down-regulate self-proteins consists in inserting one or
more foreign
T-cell ***epitopes*** into such proteins by mol. biol.
means, thereby
rendering said proteins immunogenic. The modulated
self-proteins can be
used as auto-vaccines against undesirable proteins in
humans or animals.
The auto-vaccine are useful as vaccines against a no. of
diseases, e.g.
cancer, chronic inflammatory diseases, rheumatoid
arthritis, inflammatory
bowel diseases, allergic symptoms or diabetes mellitus.
Induction of
antibodies to ***ubiquitin*** and murine tumor
necrosis factor-alpha.
(TNF.alpha.) using T-cell ***epitopes*** from
ovalbumin and hen egg
white lysozyme was shown.

=> d l13 32 cbib ab

L13 ANSWER 32 OF 50 MEDLINE
94326915 Document Number: 94326915. Production and
characterization of

monoclonal antibodies specific to multi- ***ubiquitin***
chains of
polyubiquitinated proteins. Fujimuro M; Sawada H;
Yokosawa H. (Department
of Biochemistry, Faculty of Pharmaceutical Sciences,
Hokkaido University,
Sapporo, Japan..) FEBS LETTERS, (1994 Aug 1) 349 (2)
173-80. Journal
code: EUH. ISSN: 0014-5793. Pub. country: Netherlands.
Language: English.
AB Polyubiquitinated proteins tagged with multi-
ubiquitin chains
are substrates preferred by the 26 S proteasome (a
ubiquitin
/ATP-dependent proteolytic complex). Here, we developed
a simple method
for the efficient preparation of polyubiquitinated proteins

which are degraded by the 26 S proteasome in an ATP-dependent manner. Our efficient method enabled us to produce ten monoclonal antibodies that recognized the multi- ***ubiquitin*** chains of the polyubiquitinated proteins, but not free ***ubiquitin*** or the protein moieties. Eight of the antibodies recognized only the multi- ***ubiquitin*** chains of the polyubiquitinated proteins, while the other two antibodies cross-reacted with mono- ***ubiquitin*** and methyl- ***ubiquitin***, both of which are linked to proteins via an isopeptide bond, as well as with the multi- ***ubiquitin*** chains. Thus these antibodies are novel and useful tools for the identification and quantification of polyubiquitinated proteins in various cells and tissues under physiological and pathological conditions.

=> d l13 36 cbib ab

L13 ANSWER 36 OF 50 MEDLINE
DUPLICATE 18
92348449 Document Number: 92348449. cDNA cloning of a novel human ***ubiquitin*** carrier protein. An antigenic domain specifically recognized by endemic pemphigus foliaceus autoantibodies is encoded in a secondary reading frame of this human epidermal transcript. Liu Z; Diaz L A; Haas A L; Giudice G J. (Department of Dermatology, Medical College of Wisconsin, Milwaukee.) JOURNAL OF BIOLOGICAL CHEMISTRY, (1992 Aug 5) 267 (22) 15829-35. Journal code: HIV. ISSN: 0021-9258. Pub. country: United States. Language: English.
AB Autoantibodies from a patient suffering from endemic pemphigus foliaceus (EPF), a blistering skin disease, were used to screen a lambda gt11 human keratinocyte cDNA library. One immunoreactive cDNA clone (lambda EPF5) containing a 900-base pair insert was isolated and subjected to further analysis. Eight of 25 EPF sera were shown to react with the EPF5 ***fusion*** protein on immunoblots. The EPF5 cDNA insert ***hybridized*** with a 1.2-kilobase epidermal RNA transcript on a Northern blot. Sequence analysis revealed that lambda EPF5 contained the complete coding sequence for a 24-kDa polypeptide

exhibiting significant sequence homology with a family of enzymes known as ***ubiquitin*** carrier proteins, or E2s, which are an essential component of the ***ubiquitin*** -protein ***conjugation*** system. The homology was particularly high in the core region containing the active site cysteine. The keratinocyte ***ubiquitin*** carrier protein expressed in bacteria, and isolated either intact or as a glutathione S-transferase ***fusion*** protein, exhibited the ability to form a thiol ester linkage with ***ubiquitin*** in a ***ubiquitin*** activating enzyme (E1)-dependent manner, a characteristic property of ***ubiquitin*** carrier proteins. The E2 enzyme encoded by clone EPF5 is the first member of this protein family to be cloned from an epidermal source. Interestingly, the EPF autoantibody-reactive ***epitope*** and the ***ubiquitin*** carrier protein were shown to be encoded in two different translational reading frames. The relevance of the cloned EPF ***epitope*** in the pathogenesis of this autoimmune disorder remains to be determined.

=> d l13 46 cbib ab

L13 ANSWER 46 OF 50 MEDLINE
DUPLICATE 24
89215822 Document Number: 89215822. Immunochemical properties of ***ubiquitin*** ***conjugates*** in the paired helical filaments of Alzheimer disease. Perry G; Mulvihill P; Fried V A; Smith H T; Grundke-Iqbali I; Iqbal K. (Division of Neuropathology, Case Western Reserve University, Cleveland, Ohio 44106.) JOURNAL OF NEUROCHEMISTRY, (1989 May) 52 (5) 1523-8. Journal code: JAV. ISSN: 0022-3042. Pub. country: United States. Language: English.
AB Immunocytochemical and peptide sequencing studies indicate that the regulatory protein ***ubiquitin*** (Ub) is incorporated into the paired helical filaments (PHF) of Alzheimer disease. In this study, we showed that some antibodies raised to PHF recognize ***epitopes*** of Ub. Analysis of the Ub sequences recognized by the antibodies raised to

PHF, along with the known specificity of several monoclonal antibodies raised to artificial Ub ***conjugates***, indicates the immunochemical representation of Ub residues 34-76 in PHF. The Ub ***epitopes*** recognized by antibodies raised to PHF are distinct from those recognized by antibodies raised to artificial Ub ***conjugates*** in two respects. First, antibodies that are raised to PHF and that recognize Ub react with PHF equally, whether denatured or not, whereas those raised to artificial Ub ***conjugates*** show greater reaction after denaturation. Second, mapping of the ***epitopes*** recognized by two monoclonal antibodies to PHF onto Ub indicates a distinction in the Ub residues recognized, compared with monoclonal antibodies raised to artificial Ub ***conjugates***. The proximity of their ***epitopes*** to the site of ***conjugation***, as well as their affinity for PHF polypeptides, suggests that the PHF antibodies that recognize Ub may be directed specifically to Ub ***epitopes*** defined by the protein ***conjugated*** to Ub.